

"Brain Dump"

FSA Mathematics Reference Sheets Pocket

Study Guide

Algebra 1 EOC FSA Mathematics Reference Sheet

Customary Conversions

- 1 foot = 12 inches
- 1 yard = 3 feet
- 1 mile = 5,280 feet
- 1 mile = 1,760 yards

- 1 cup = 8 fluid ounces
- 1 pint = 2 cups
- 1 quart = 2 pints
- 1 gallon = 4 quarts

- 1 pound = 16 ounces
- 1 ton = 2,000 pounds

Metric Conversions

- 1 meter = 100 centimeters
- 1 meter = 1000 millimeters
- 1 kilometer = 1000 meters

- 1 liter = 1000 milliliters

- 1 gram = 1000 milligrams
- 1 kilogram = 1000 grams

Time Conversions

- 1 minute = 60 seconds
- 1 hour = 60 minutes
- 1 day = 24 hours
- 1 year = 365 days
- 1 year = 52 weeks

$$IQR = Q_3 - Q_1$$

$$\text{Residuals} = \text{actual } y - \text{predicted } y$$

Correlation Coefficient

- 1 = Perfect Positive
- 0 = No Correlation
- 1 = Perfect Negative

Florida Department of Education

Quadratic Equation

$$ax^2 + bx + c = 0 \quad \text{standard form}$$

Axis of symmetry

$$\text{Vertex: } (x, y) \quad \boxed{x = \frac{-b}{2a}} \quad \boxed{y = f(x)}$$

vertex form $a(x-h)^2 + k$ (h, k) vertex $k = f(h)$ $h = \frac{-b}{2a}$

Quadratic Formula

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

Discriminant $(b^2 - 4ac)$ Positive = 2 solutions $\neq 1$ solution Neg = no solution

Arithmetic (Linear) Sequence

$$a_1 + (n-1)d$$

d = common difference
 a_1 = 1st term n = term # you want to find

Geometric (Exponential) Sequence

$$a_1 \cdot r^{n-1}$$

r = common ratio
 a_1 = 1st term
 n = term # you want to find

Exponential Growth / Exponential Decay

$$f(t) = a(1+r)^t$$

a = initial amount
 t = time

$$f(t) = a(1-r)^t$$

r = rate as a decimal

Linear

$$y = mx + b$$

m = slope or rate of change
 b = y-intercept

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

2017-18

Point Slope

$$y - y_1 = m(x - x_1)$$

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B Lingard



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web the ballistic pendulum physics 110 laboratory in this experiment you will determine the muzzle velocity of a gun using two different methods the first method consists of firing a ball horizontally from the tabletop by measuring the range of the ball in the second part of the experiment the ball will be fired into the ballistic pendulum shown above and

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web abstract in this experiment we measured g by measuring the period of a pendulum of a known length we measured $g = 7.650378 \text{ m/s}^2$ this corresponds to a relative difference of 2.22% with the accepted value 9.8 m/s^2

and our result is not consistent with the accepted value

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web the ballistic pendulum measures the velocity of projectiles through the conservation of linear momentum and mechanical energy in this experiment we can determine the initial velocities of the projectile motion by measuring the distance on which the center of mass of the projectile rises through the law of conservation of linear momentum and

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web to obtain the velocity of a projectile using a ballistic pendulum the length of the pendulum had to be measured as well as the mass of the pendulum projectile and the pendulum swing angle there were two methods used to complete this experiment and obtain the value of the velocity

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web experimental technique 1 use foam to set up a trap to catch the projectile see image 1 2 set up the pendulum and projectile launcher with the rotary motion sensor see image 2 3 3 measure the mass of the pendulum and the projectile as well as the length of the pendulum 4 prepare data studio for the experiment 5

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web theory a ballistic pendulum is a device that can be used to measure the speed of projectiles using both conservation of momentum and conservation of energy it contains a swinging pendulum and a spring gun the gun shoots out the projectile ball bearing into the bob creating an inelastic collision